

Amendments to the Claims

The following listing of claims replaces all prior versions and listing of claims in the application.

Listing of claims.

1. (Cancelled)
2. (Previously Presented) The filter material of claim 7 wherein the additive is a metal oxide.
3. (Original) The filter material of claim 2 wherein the additive is selected from the group consisting of aluminum, iron, titanium and lanthanum.
4. (Withdrawn) The filter material of claim 2 wherein the additive is lanthanum.
5. (Previously Presented) The filter material of claim 7 wherein the additive is impregnated in an amount of between 5% and 140% by weight of the filter media.
6. (Previously Presented) The filter material of claim 7 wherein the contaminant is arsenic.
7. (Previously Presented) A filter material for removing a contaminant from a fluid stream comprising:
  - a) an ordered filter media; and
  - b) an additive impregnated into the filter media and capable of bonding to the contaminant, wherein the filter media is a mesoporous silica molecular sieve.
8. (Previously Presented) The filter material of claim 7 wherein the additive is in powder form.
9. (Previously Presented) The filter material of claim 7 wherein the additive is in granular form.
10. (Previously Presented) The filter material of claim 7 wherein the filter media and impregnated additive are combined with an additional filter material.

11. (Previously Presented) The filter material of claim 10 wherein the additional filter material is a carbon block.

12. (Previously Presented) The filter material of claim 7 wherein the fluid stream is a water stream.

13. (Previously Presented) The filter material of claim 7 wherein the fluid stream is a gas stream.

14. -- 17. (Canceled)

18. (Withdrawn) A method for forming a filter material for removing a contaminant from a fluid stream, the method comprising the steps of:

a) forming an ordered filter media; and

b) impregnating an additive into the ordered filter media, wherein the step of forming the ordered filter media comprises forming an ordered mesoporous molecular sieve.

19. (Withdrawn) The method of claim 18 wherein the step of impregnating the additive into the filter media is performed by an incipient wetness impregnation technique.

20. (Withdrawn) The method of claim 18 wherein the step of impregnating the additive into the filter media is performed by a wetness impregnation technique.

21. (Withdrawn) The method of claim 18 wherein the step of impregnating the additive comprises impregnating the additive into the filter media in an amount between about 5% and about 140% by weight of the filter media.

22. (Withdrawn) The method of claim 18 wherein the additive is selected from the group consisting of aluminum, iron, titanium and lanthanum.

23. (Withdrawn) The method of claim 18 wherein the additive is in powdered form.

24.-25. (Canceled)

26. (Withdrawn) The method of claim 28 wherein the additive is selected from the group consisting of aluminum, iron, titanium and lanthanum.

27. (Canceled)

28. (Withdrawn) A method for removing a contaminant from a fluid stream comprising the steps of:

a) providing a filter material including a filter media intermixed with an additive; and

b) placing the filter media into the fluid stream,

wherein the step of providing the filter media comprises the steps of:

a) forming a filter media; and

b) mixing the additive into the filter media;

wherein the step of forming the filter media comprises forming an ordered mesoporous molecular sieve.

29. (Withdrawn) The method of claim 28 wherein the step of mixing the additive comprises impregnating the additive into the sieve.

30. (Withdrawn) The method of claim 28 wherein the step of forming the filter media further includes the step of incorporating in a carbon block with the ordered mesoporous molecular silica.

31. (Withdrawn) The method of claim 28 wherein the step of forming an ordered mesoporous molecular sieve comprises forming a mesoporous molecular sieve with an average pore size of between about 4 nm to about 10 nm.

32. (Withdrawn) The method of claim 28 wherein the step of placing the filter media in the fluid stream comprises placing the filter media in a water stream.

33. (Withdrawn) The method of claim 28 wherein the step of mixing the additive into the filter media comprises mixing a titanium compound into the filter media.

34. (Withdrawn) The method of claim 28 wherein the step of mixing the additive into the

filter media comprises mixing a lanthanum compound into the filter media.

35. (Withdrawn) The method of claim 28 wherein the step of mixing the additive into the filter media comprises mixing an aluminum compound into the filter media.

36. (New) The filter material of claim 7 wherein the additive is capable of absorbing the contaminant onto the additive.

37. (New) A method for forming a filter material for removing a contaminant from a fluid stream, the method comprising the steps of:

a) forming an ordered filter media; and

b) impregnating an additive into the ordered filter media capable of adsorbing the contaminant onto the additive, wherein the step of forming the ordered filter media comprises forming an ordered mesoporous silica molecular sieve.

38. (New) The method of claim 37 wherein the step of impregnating the additive into the filter media is performed by an incipient wetness impregnation technique.

39. (New) The method of claim 37 wherein the step of impregnating the additive into the filter media is performed by a wetness impregnation technique.

40. (New) The method of claim 37 wherein the step of impregnating the additive comprises impregnating the additive into the filter media in an amount between about 5% and about 140% by weight of the filter media.

41. (New) The method of claim 37 wherein the additive is selected from the group consisting of aluminum, iron, titanium and lanthanum.